

UNT, N., inzhener-polkovnik.

You start a trip. Za rul. no.6:7 Je '57.

(MIRA 10:7)

1. Chlen byuro turistskoy sekti TSentral'nogo avtomotokluba.
(Automobiles--Touring)

S/054/60/000/02/03/021
B022/B007

AUTHORS: Saulit, V. R., Unt, V. A.

TITLE: Inhomogeneous Magnetic Fields for the Focusing of a Divergent Beam of Charged Particles

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1960, No. 2, PP. 28-33

TEXT: In a previous paper by V. R. Saulit (Ref. 1) the focusing properties of an inhomogeneous magnetic field, which in the mirror symmetry plane depended only upon a Cartesian coordinate, were investigated. The general condition for the ideal focusing of a plane beam of charged particles was obtained in form of a nonlinear integral equation, the solution of which was found. In the present paper, the class of magnetic fields which permits calculation of a plane bundle of charged particles without aberration and without numerical integration is shown, and calculation is carried out for a special case. The scheme of the focusing of a beam of charged particles emitted by a point source is given (Fig. 1). In Fig. 2, the results obtained by calculating the focusing magnetic field in the

✓B

Card 2/2

Card 1/2

SAULIT, V.R.; UMT, V.A.

Inhomogeneous magnetic fields for focusing a divergent beam of
charged particles. Vest.LGU 15 no.10:28-33 '60.

(MIRA 13:5)

(Magnetic fields)

BR

24.4600

32212
S/139/61/000/004/001/023
E032/E514

AUTHOR: Unt, V.A.

TITLE: Centrally-symmetric gravitational fields and continuity conditions in the general theory of relativity

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no. 4, 1961, 3-8

TEXT: The present author reports an analysis of the Lichnerowicz (Ref. 1: Théories relativistes de la gravitation et de l'électromagnétisme, Paris, 1955) conditions in the case of centrally symmetric gravitational fields when the field source is in the form of a sphere of a perfect liquid having a constant density. It is shown that the Schwarzschild solution (Ref. 2: Sitzungsber. d. Preuss. Akad. d. Wissensch. 189, and 424, 1916) is not consistent with the Lichnerowicz conditions. It is shown that it is a consequence of the Lichnerowicz conditions that all the non-zero components of the metric tensor are functions of the radius of the central body. The specific form of this functional dependence is determined by the Card 1/2

X

Centrally-symmetric gravitational ... ³²²¹² S/139/61/000/004/001/023
EO32/E514

coordinate conditions. The present author obtains a general expression for the integration constant (in harmonic coordinates) which was assumed equal to zero by V. A. Fok (Ref. 3: The theory of space, time and gravitation, Moscow, 1955) and Belinfante (Ref. 4: Phys. Rev., 98, 793, 1955). This constant was previously obtained (in approximate form) by Meister and Papapetrou (Ref. 5: Z. Phys., 145, 403, 1956). In the case of a perfect liquid having a constant density the Papapetrou-Meister constant is identical with the zero-order approximation to this constant obtained by the present author. Acknowledgments are expressed to Professor Kh. P. Keres for his interest in this work. There are 5 references: 1 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Tartuskiy gosuniversitet (Tartu State University)

SUBMITTED: February 16, 1960

Card 2/2

X

S/058/62/000/007/008/C68
A061/A101

AUTHOR: Unt, V. A.

TITLE: The Schwarzschild singularity

PERIODICAL: Referativnyy zhurnal, Fizika, no. 7, 1962, 24, abstract 7A232
("Tr. In-ta fiz. i astron. AN EstSSR", 1961, no. 16, 27 - 48,
English summary)

TEXT: The gravitational field properties of a material point M are investigated by considering the motion of freely falling experimental particles P with respect to local Galilean coordinate systems. It is shown that all experimental particles P must pass through the singular Schwarzschild surface $R = 2\alpha$ with the velocity of light and move inside this surface faster than light. In taking this fact into account, extending space into the region $R < 2\alpha$, however, possible analytically, seems doubtful. Therefore, the author identifies the singular Schwarzschild surface with the material "point". It is also shown that Finkel'shteyn's (RZhFiz, 1959, no. 3, 4850) "particle" and "antiparticle" are not different particles.

[Abstracter's note: Complete translation]

Card 1/1.

UNTAN, C.

Public control of labor protection. Munca sindic [7] no.1:63 Ja
'63.

1. Secretarul comitetului sindicatului de la Uzina constructoare
de masini, Resita.

UNTARU, M., ing.; CIMPEANU, V., ing.

Influence of the advance of ignition on the dynamic and economic qualities of motorcars. Rev transport 8 no. 8: 359-364 Ag '61.

UNTARU, M., conf. ing.; BOBESCU, Gh., ing.; CIMPEANU, V., asist. ing.

Influence of road conditions on the economic and dynamic
efficiency of motor vehicles. Rev transport 9 no.5:185-188
My '62.

UNTARU, Mihai, conf. ing.; BORESCU, Gheorghe; CIMPEANU, Vasile,
asistent ing.

Influence technical state of the rolling system on the
motorcar economy. Rev transport 9 no. 11:490-493 N '62.

UNTARU, Marin, conf.; BOBESCU, Gheorghe; CIMPEANU, Vasile

Braking the motorcar with the engine. Rev transport 9 no.12:
543-545 D '62.

1. Sef lucrari (for Bobescu). 2. Asistent (for Cimpeanu).

UNTARU, Marin, ing.

Influence of the cooling system on the motorcar engine
power and economy. Rev transport 10 no. 7:317-322 J1 '63.

UNTARU, Main, conf. ing.

Possibility of increasing economy in automobiles by
improving the cooling system. Rev transport ll no. 3:
111-114 Mr '64.

UNTARU, Marin, ing.; BOBETCU, Gheorghe, ing.; CIMPEANU, Vasile, ing., SEILU,
Nicolae, ing.

Automation of the cooling in the SR-211 engine. Rev transport
12 no.2:55-59 F '65.

L 30726-66

ACC NR: AP6022118

SOURCE CODE: RU/0018/65/000/009/0506/0510

AUTHOR: Untaru, Marin

ORG: none

TITLE: Influence of the thermic conditions of engines on the economic efficiency of cars

SOURCE: Constructia de masini, no. 9, 1965, 506-510

TOPIC TAGS: heat balance, cooling, vehicle engine

ABSTRACT: The author analyzes mathematically the extent to which the thermal equilibrium of the engine affects the efficiency of a car, and presents and discusses experimental results obtained in experimental cooling studies. Orig. art. has: 2 figures and 27 formulas. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 21, 20 / SUBM DATE: none / ORIG REF: 001 / SOV REF: 003

Card 1/1 FV

UDC: 621.431.73.015:629.113.003

RUMANIA/Microbiology. Hemoglobinophilic Bacteria. Pathogenic
Fungi and Actinomycetes

F-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 6251^h

Author : Popper M., Wolf A., Unteanu Gh.

Inst : -

Title : The Problem of Pulmonary Moniliasis

Orig Pub : Ftiziologia, 1957, 6, No 5, 387-395

Abstract : No abstract

Card : 1/1

UNTEANU, Gh.
POPPER, M.; UNTEANU, Gh.

Notes on early diagnosis of primary bronchopulmonary cancer. Med. int.,
Bucur. 9 no.12:1829-1835 Dec 57.
(LUNG NEOPLASMS, diagnosis
early diag., methods)

CONSTANTIN, St., dr.; NICOLSCU, P., dr; BUNGETEANU, Gh., dr.; UNTEANU, Gh., dr.

Anatomo-clinical aspects of broncholithiasis. Med. int., Bucur. 11
no. 11: 1655-1664 N '59.

1. Lucrare efectuata in Institutul de fiziologie si Spitalul
"Bernat Andrei", Bucuresti.
(BRONCHI, diseases)
(CALCULI)
(TUBERCULOSIS PULMONARY, complications)

UNTERBERGER, G.
SAMYLOV, P.; UNTERBERGER, G.

Improving production of grooved tiles. Stroil. mat. 4 no.1:27-28
Ja '58. (MIRA 11:2)

1. Direktor Ne'yanskogo kombinata stroitel'nykh materialov (for
Samylov). 2. Glavnyy inzhener Sverdlovskogo oblastnogo upravleniya
promyshlennosti stroitel'nykh materialov (for Unterberger).
(Tiles, Roofing)

UNTERBERGER, Pavel Fedorovich

UNTERBERGER, Pavel Fedorovich. ...Priamurskii Krai. 1906-1919 gg. Ocherk s 6 kartami, 21 tablitssei prilozhenii i s 55 risunkami na dvadtsi listakh. S.-Peterburg, 1912. 1 p.l., xiii, (1), 428, 53, (1) p. (Zapiski Imperatorskago Russkago geograficheskago obshchestva po Otdieleniiu statistiki. T. XIII ...)

DLG: DK771.A3U6

So: LC, Soviet Geography, Part II, 1951/Unclassified

UNTERBERGER, V.K.

Results of attracting wintering birds to the center of propagation of the
pine stem borer (*Panolis flammea* Schiff.). Zool.zhur. 32 no.3:550-552 My-
Je '53. (MLRA 6:6)

1. Khoperskiy gosudarstvennyy zapovednik.

(Borers (Insects))

USSR / General and Special Zoology. Insects. Insect
and Mite Pests. P

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54364.

Author : Unterberger, V. K.
Inst : Not given.
Title : On the Fauna of Conifer-Damaging Insects of the
Khoper Novekhoperskiy Leskhoz.

Orig Pub: Tr. Khopersk, gos. zapovednika, 1956, vyp. 2, 144-
149.

Abstract: In 1952-1953, 11 species of conifer-damaging pests
were recognized. From this number the red-headed
and the star-shaped web-spinning sawflies were dis-
covered in the Khoper Reserve for the first time.
The number of eggs and larvae of the red-headed
web-spinning sawfly was counted on standard trees.
The article also gives information on the star-

Card 1/2

USSR / General and Special Zoology. Insects. Insect
and Mite Pests. P

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54364.

Abstract: shaped web-spinning sawfly and on sawflies of the
genus Gilpinia: G. virens, G. pallida, G. vertic-
alis and G. frutetorum -- M. N. Kovaleva.

Card 2/2

BEZUGLYY, S.F.; SARISHVILI, I.G.; LUKANINA, V.S.; POKROVSKIY, Ye.A.;
UNTERBERGER, V.K.

Investigation of the chemical stability of mineral oils and oil
fractions and development of nonphytotoxic emulsions based on
them for controlling pests of citrus and other fruit cultures.
[Trudy] NIUIF no.164:34-35 '59. (MIRA 1515)
(Insecticides)

POKROVSKIY, Ye.A.; UNTERBERGER, V.K.; DENISKINA, G.P.

Measures for controlling the San Jose scale. Zashch. rast.
ot vred. 1 bol. 5 no.1:27 Ja '60. (MIRA 14:6)
(San Jose scale)

UNTERBERGER, V. Ya.

"Ceramic Barriers for Mercury Rectifiers." Cand Tech Sci, Ural
Polytechnic Inst, Sverdlovsk, 1953. (RZhKhim, No 22, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

UNTERBERGER, V.Ya., kand. tekhn. nauk

~~SECRET~~
Electrokinetic properties of suspensions of Ural Mountain
region clays. Trudy Ural. politekh. inst. no.117:67-74 '62.
(MIRA 16:6)

(Ural Mountain region--Clay--Electric properties)

PANAITIDE, C., ing.; MARCU, Gh., ing.; IONESCU, Gh.; RADU, N.; PAVEL, M.;
VASILESCU, P., ing.; ROSU, A., ing.; PAVEL, M., ing.; ENEDI, E.;
MIHAI, Gh.; SANDULESCU, M., ing.; AVACHIAN, A., ing.; ANDREICOVICI,
Gh., ing.; UNTERFINGER, E., ing.

New technology in combed cotton spinning for improving yarn
quality. Ind text Rum 14 no.10:448-450 S '63.

1. De la Filatura romineasca de bumbac (for Panaitide, Marcu,
Ionescu, Radu, Pavel, D., Vasilescu, Rosu, Pavel, M., Enedi,
Mihai, Sandulescu).
2. De la Institutul de cercetari textile (for Avachian,
Andreicovici, Unterfinger).

UNTERMAN, H.W.

A characteristic reaction for identification of lactobionate of erythromycin. Rev chimie Min petr 14 no.5:301-302 My '63.

1. Fabrica de antibiotice - Iasi, Serviciul de cercetari.

UNTERMAN, H. W.

Spectrophotometric determination of phenoxymethylpenicillin
in the fermentation liquid. Rev chimie Min petr 15 no.5:
283-285 My '64.

1. Department of Research of the Factory of Antibiotics,
Iasi.

UNTERMAN, Kh.V.

Spectrophotometric methods (in the ultraviolet and infrared fields) for the determination of antibiotics. Antibiotiki
10 no. 10:867-872 O '65. (MIRA 18:12)

1. Issledovatel'skaya laboratoriya fabriki antibiotikov, Yassy, Rumyniya. Submitted October 19, 1964.

L 64908-65

ACCESSION NR APS023422

AUTHOR: Unterman, W. H.; Pacular, T. ⁵⁵ ~~56~~

TITLE: Spectrophotometric determination of osmaron in osmatin unguent

SOURCE: Revista de chimie, v. 15, no. 11, 1964, 699

TOPIC TAGS: spectrophotometric analysis, antibiotic ⁵⁵

ABSTRACT: The spectrophotometric determination of Osmaron in Osmatin unguent involves extraction in ethylene glycol and spectrophotometry at lambda = 440 millimicrons. The limit of detection is 0.01 mg/ml. The method is applicable to samples consisting of various antibiotics and their derivatives after appropriate treatment. Orig. Art. Incl. 2 graphs and 1 table.

ASSOCIATION: Fabrica de antibiotice, serviciul cercetari, Iasi (Factory of Antibiotics, Research Center) ⁵⁵

SUBMITTED 24 May 64

NR REF SOV: 000

OTHER: 000

01-1

1/1 ⁵⁵

UNTERMAN, Kh.V.

Colorimetric determination of antibiotics. Antibiotiki 7 no.12:
1112-1116 D '62. (MIRA 16:5)

1. Issledovatel'skaya laboratoriya, fabrika antibiotikov (Yassy,
Rumyniya).

(PENICILLIN) (STREPTOMYCIN) (TETRACYCLINE)
(COLORIMETRY)

UNTERMAN, L.; TOMA, R.

Some contributions to the problem of obtaining an intermediary product with high yields in the process of extracting chlortetracycline. p. 103.

REVISTA DE CHIMIE. Bucuresti, Rumania. Vol. 10, no. 2, Feb. 1959.

Monthly List of East European Accessions. (EEAI), LC. Vol. 8, no. 9, ^{Sept.} 1959.
Uncl.

UNTERMAN, N.W.

Identification of nystatin by titanium tetrachloride. Rev chimie Min
petr 13 no.10:618 0 '62.

1. Fabrica de antibiotice, Iasi, Serviciul de cercetari.

UNTERMAN, Wolf H.

Quantitative studies on the influence of some metallic ions upon the stability of chlortetracycline in aqueous solutions. Studii chimie Iasi 10 no.2:379-384 '59. (EEAI 10:1)

1. Serviciul de cercetari al Fabricii de antibiotice Iasi, Valea Lupului.

(Iron)	(Cobalt)	(Ions)	(Chlortetracycline)
(Water)	(Solutions)	(Nickel)	(Copper)
(Manganese)	(Calcium)	(Barium)	(Magnesium)

UNTERMAN, Wolf H.

Variation of pH in the process of the inactivation of chlortetracycline
under the action of metallic chlorides. Studii chim Iasi 11 no.1:
97-102 '60. (EBAI 10:3)

(Hydrogen-ion concentration) (Chlortetracycline)
(Magnesium) (Iron) (Calcium) (Borium)
(Chlorides)

~~100-100000-100000~~ ✓
~~Source (in caps); Given Name~~

Country: Rumania

Academic Degrees: not given

Affiliation: not given

Source: Bucharest, Farmacia, No 5, May 61, pp 297-301.

Data: "Calorimetric Determination of Erythromycin."

Co-author:

CRUCEANU, M. ✓ [Academic degrees and affiliations not given.]

FISEL, S.; UNTERMAN, W.H.

Paper chromatography and electrochromatography of certain cations
in antibiotic solutions. Studii chim Iasi 12 no.2:187-197 '61.

1. Academia R.P.R., Filiala Iasi, Institutul de chimie "P.Poni,"
Sectia de chimie anorganica.

UNTERMAN, W.H.

A new colorimetric method for the determination of nystatin.
Rev chimie Min petr 12 no.7:415-417 J1 '61.

UNTERMAN, W.H.

A new reaction for nystatin identification. Rev. chimie Min.
petr. 12 no.8:504 Ag'61

1. Fabrica de antibiotice Iasi, Serviciul de cercetari.

UNTERMAN, W. H.; MIRONEANU, Th.

Influence of some antibiotics (polymyxin, neomycin, viomycin, erthromycin, lactobinate, nystatin) on the chromatographic and electrochromatographic migration of cations. Studii chim Iasi 13 no.1:59-66 '62.

1. Serviciul de cercetari al Fabricii de antibiotice, Iasi.

UNTERMAN, W.H.

Observations on the spectrophotometric determination of griseofulvin
in the liquid of fermentation. Rev chimie Min petr 15 no.7:423
Jl '64

1. Research Section, Antibiotic Plant, Iasi.

UNTERMAN, W.H.; PACULAR, T.

Spectrophotometric dosing of Ocamaron in the Ocamatin unguent.
Rev chimie Min petr 15 no.11:699 N '64.

1. Research Section, Antibiotic Plant, Iasi.

L 39127-66 T JK

ACC NR: AP6030352

SOURCE CODE: RU/0003/65/016/003/0166/0167

AUTHOR: Unterman, W. H.; Budai-Albu, Margareta; Idel, Ana; Rusan, M. 34
B

ORG: Research Services, Antibiotics Factory, Iasi (Fabrica de Antibiotice, Serviciul cercetari)

TITLE: Observations concerning the G-penicillin recovered from residual waters 6

SOURCE: Revista de chimie, v. 16, no. 3, 1965, 166-167

TOPIC TAGS: penicillin, chemical precipitation, recrystallization, paper chromatography, spectrophotometric analysis

ABSTRACT: The authors note that the penicillin G recovered by means of N,N-dibenzylethylenediamine salt from the mother liquor after precipitation of the mother product must be recrystallized in order to obtain a time-stable product free of foreign penicillins and decomposition products. To analyze the purity of the samples, they suggest spectrophotometric measurements of the absorption at 322 millimicrons as well as at 263 and 280 millimicrons in order to detect degradation products, and paper chromatography to detect foreign penicillins. Orig. art. has: 1 figure and 1 table. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 003

me
Card 1/1

L 34898-66, T JK

ACC NR: AP6026617

SOURCE CODE: RU/0003/65/016/005/0286/0287

AUTHOR: Unterman, H.-W. *W-H*

ORG: Research Services, Factory of Antibiotics, Iasi (Serviciul de cercetari, Fabrica de antibiotice) *L*

TITLE: Colorimetric determination of griseofulvin *6*

SOURCE: Revista de chimie, v. 16, no. 5, 1965, 286-287

TOPIC TAGS: chemical identification, antibiotic, colorimetry, pharmacology

ABSTRACT: The author describes a colorimetric method for the determination of griseofulvin, either as the pure substance or in tablets. The method is based on measurement of the yellow coloring formed by griseofulvin with isonicotinic acid hydrazide in a warm alkaline medium, and can be used in the presence of other antibiotics without their prior removal. Orig. art. has: 2 figures and 1 table. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 07, 06 / SUBM DATE: 09Jul64 / ORIG REF: 002 / SOV REF: 002
OTH REF: 012

Card 1/1 *71195*

UDC: 616.779.932.445.81
0916 2344

RUMANIA

Antibiotics

615.779.932

MIRONEANU, Th., UNTERMAN, H. W., EISENFELD, J., and CHIRIAC, C.,
of the Factory of Antibiotics (Fabrica de Antibiotice), Iasi.

"An Improved Technique for Obtaining Sodium Benzylpenicillin."

Bucharest, Revista de Chimie, Vol 17, No 4, Apr 66, pp 230-231.

Abstract [Authors' English summary modified]: A description of an improved technique for the preparation of sodium benzylpenicillin. The method is based on the precipitation of penicillin from the primary organic extract resulting from the processing of the native solution with cyclohexamine; after the division of the raw basic salt in acid medium in an organic solvent, the desired product is precipitated with the aid of a methanolic sodium acetate solution. The method is simple and involves lower raw material consumption combined with higher yields as compared to older techniques.

Includes one table, one flow chart and four references, of which one Rumanian, one Russian and 2 German.

RESUMÉ, 2.

The technique of welding on shipways is used in the construction of the 111-900
IDW timber cargo ship. n. 312.

PRZEBUDOWA SPRAWY. (Stowarzyszenie Inżynierów i Techników Mechaników Polskich
i Instytut Specjalistyczny) Warszawa, Poland. Vol. 11, no. 10/11, Oct./Nov. 1959.

Monthly List of East European Association (MEM) 17, Vol. 1, no. 2, Feb. 1959.

Wzrost.

ACCESSION NR: AP4031750

Z/0034/64/000/004/0296/0296

AUTHOR: Unterschutz, Z. (Engineer); Naruszewicz, E. (Engineer); Kaus, T.

TITLE: Method for cleaning slag and other impurities from metal surfaces and equipment for use with this method

SOURCE: Hutnicke listy, no. 4, 1964, 296

TOPIC TAGS: cleaning, weldability, electric arc, welding transformer, electric arc electrode, metal oxide

ABSTRACT: The invention permits the heat cleaning of a metal surface by an electric arc while at the same time removing slag and other impurities by a cleaning device forming one electrode of the electric arc, the other electrode being the metal surface to be cleaned. The invention is shown in diagram 1. Two plates 4 are set up on shaft 8. The drum formed in this way carries on the longitudinal rods 3 hooked up in its circuit the loosely attached plates 2 which are the working elements cleaning the metal surface 1. The required current is fed from welding transformer 5 via 9 to brush 6 and ring 7 which

Card 1/3

ACCESSION NR: AP4031750

is securely fixed to shaft 8. The other pole of the power supply is connected by conductor 10 directly to the metal part whose surface is to be cleaned. The alternating action of the electric arc makes possible rapid heat transfer which permits rapid separation and evaporation of the impurities and slag from the metal surfaces. Because the different substances have different rates of thermal expansion, they separate completely. Under the effect of high temperatures, metal oxides and other protective coatings are formed on the metal surfaces. This condition makes impossible the successive rewelding of the liberated impurities. [Complete translation]

ASSOCIATION: none

SUBMITTED: 07Jun61

DATE ACQ: 28Apr64

ENCL: 01

SUB CODE: MM

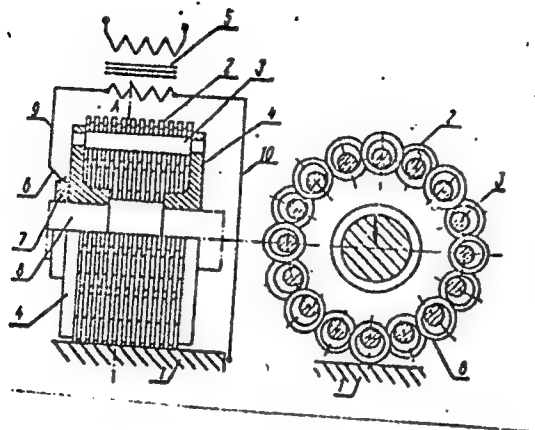
NO REF SOV: 000

OTHER: 000

Card 2/3

ACCESSION NR: AP4031750

ENCLOSURE: 01



Card 3/3

UNTERSEN, V.

Geodetic method of determining dam deformations. p. 267.
ACTA PHYSICA POLONICA. Warszawa. Vol. 12, No. 7, July
1956.

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

Notes on the Pregl method of microanalysis Josef Unterzaucher *Mikrochemie* 10, 312 (1935). The manipulation before every analysis of a hydrocarbon is simplified by introducing a glass stopcock in the tubing that leads to the Mariotte bottle. After releasing the pressure from Carius tubes in the usual way, all danger of contaminating the contents with glass splinters is avoided by sealing the tubes again and then heating with a 2 ft. long blast flame in such a way that the tube can be bent back and opened just below the constricted part. W. T. H.

CA

1ST AND 2ND SECTORS

PROCESSES AND PROPERTIES INDEX

A high-vacuum microdesiccator. Josef Unterzacher. *Mikrochimica* 10, 315-1H(1955).—The app. shown is of stout construction and permits the use of a high vacuum and an elevated temp. for the drying. It is of the revolving type and is provided with a receptacle in which the capsule contg. the substance is weighed before and after the drying. The app. is especially suited for work with substances which are hard to dry and are hygroscopic.

W. T. H.

ASAC-51A METALLURGICAL LITERATURE CLASSIFICATION

RESEARCH DIVISION

RESEARCH DIVISION

BC

USE OF NEURAL GROUND JOINTS IN MICRO-KJELDAHL APPARATUS. J. URSCHMANN (Mikrochem. Molash Festschr., 1938, 438-439). The decomp. flask is used also for the distillation, the distillation head fitting on by a standard ground glass joint. J. S. A.

UNTERSCHUTZ, Z.

A method of automatic shielded-arc welding of ship plates with wide joints and steel backing strips.

P. 149 (PRZEGLED SPAWALNICTWA) (Warszawa, Poland) Vol. 9, no. 6, June 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958

UNTERSPLYAG, G., inzh.

Machine for packaging groats. Muk.-elev. prom. 24 no.7:25 J1 '58.
(MIRA 11:10)

1.Glavnoye upravleniye khlebour oduktov pri Soveto Ministrov AzerSSR.
(Packaging machinery)

COUNTRY : Burma
CULTURE : Cultivated Plants. Potatoes. Vegetables.
Cucurbits.
ABST. JOUR : The Burmese Journal, No. 1, 1959, No. 167.
AUTHOR : Dhillon, A.
TITLE : A valuable Onion Population of "Chakka da
Tafukar" and its agricultural technique.
ORIG. PUB : Gurdara, via of India, 1958, 7, No. 5, 11-17
ABST. JCT : No abstract.

CAMP: 1/1

UNTILA, I.P.

Some biological characteristics of unripe seeds grown in
nutrient solutions. Agrobiologiya no.2:211-215 Mr-Apr '64.
(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy selektsionno-
geneticheskiy institut, g. Odessa.

UNTILOVA, A.I. (Belgorod-Dnestrovskiy, Odesskoy oblasti)

Causes of changes in the form of root hairs. Bot. zhur. 46 no. 3:
407-410 Mr '61. (MIRA 14:3)
(Roots (Botany--Morphology))

POLYAKOVA, N.M.; UNTINA, N.A.

Phosphoglucumutase in various sections and interstitial structures
of the brain. Vop. med. khim. 7 no.5:524-527 S-O '61.

(MIRA 14:10)

1. The Institute of Biochemistry of the Academy of Sciences of
the Ukrainian S.S.R., Kiev,
(BRAIN) (PHOSPHOGLUCUMUTASE)

KRUK, M.T., inzh.; UNTON, T.B., inzh.

Burning of gas in a furnace with low-pressure slotted
burners. Energetik 11 no.4:9-11 Ap '63. (MIRA 16:3)
(Furnaces) (Boilers)

Untu, A.; Leonte, A.; Pintea, C.

The influence of the microelements boron and uranium on the nitrification power of soils. p. 111.

LUSUMBA SCIENTIF. (Institutul Agronomic "Profesor Ion Ionescu de la Brad," Iasi) Bucuresti, Rumania.

Monthly list of East European Accessions (EEAI) LG, Vol. 8, no. 2, Aug. 1959

Uncl.

UNTV A.

Card 2/2

32

Card 1/2

ROMANIA / Cultivated Plants. Grains.

Abstr Jour: Agr Zool-Biol., 1958, No 15, 7291a.

Author: Pănescu, C.; Pănescu, D.; Popescu, I.; Lazar, E.

Topic: Not given.

Title: Influence of Micro-Elements on the Growth and Development of Corn.

Orig. Publ: Studi. si cercetari stiint. Agr. Rep. Pop. Rom. Biol. si stiinta agric., 1950, 7, No 1, 153-160.

Abstract: Treatment of seeds with boric acid in a concentration of 0.2% accelerates the appearance of panicles by 3-4 days, ripening of ears and increases the grain harvest (by 7-23%). If the plants are sprayed with boric acid the influence of the boron is weaker. Nitric acid uranium lengthens the ripening period of the ears and increases the harvest.

ROMANIA / Cultivated Plants. Grains.

Abstr Jour: Agr Zool-Biol., 1958, No 15, 7291b.

R-3

Abstract: The influence of uranium appears sharper when plants are sprayed, but not with treatment of the seeds with nitric acid uranium in a concentration of 0.15-0.25%. -- A. P. Kolyasova.

Rumania/Soil Science. Physical and Chemical Properties of J
Soils

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58290, By P. Sh

Author : Pintea C., Leonte Angela, Untu Aurelia

Inst : Not given

Title : Dynamics of Phosphates in Podzol Soils

Orig Pub : Probl. agric., 1956, 8, No 10, 29-37

Abstract : Results of the investigations conducted at the
Yassk Agrochemical Laboratory to determine the
content of mobile forms of P in soils and their
dependence on the mechanical composition of the
soils, their water regimen, the reaction of the
soil solutions, the periods of introduction of
phosphate fertilizers into the soil, and the
quantities of the fertilizers used are presented.

Card 1/1

PINTEA, C.; TARNAUCEANU, E.; UNTU, A.; CIUREA, G.; LEONTE, A.

Efficiency of combined microelements applied to corn,
sunflowers, and sugar beets. Studii biol agr Iasi 13
no.2:349-358 '62.

UNTU, R.; UNTU, C.

On the electric and mechanical characteristics of some aluminum
conductors: preliminary note. Studii fiz tehn Iasi 10 no.2:
235-239 '59. (EEAI 9:9)

(Electric conductors) (Aluminum)

UNTU, C.; ZERVUDIS, C.; UNTU, R.

Contributions to the study of the domestic building materials;
preliminary note: study of the clay of Valea Lupului, district
of Iasi. Studii fiz tehn Iasi 10 no.2:241-249 '59. (EEAI 9:9)
(Rumania--Building materials) (Clay)

UNTU, R.; UNTU, C.

On the electric and mechanical characteristics of some aluminum
conductors: preliminary note. Studii fiz tehn Iasi 10 no.2:
235-239 '59. (EEAI 9:9)
(Electric conductors) (Aluminum)

UNTU, C.; ZERVUDIS, C.; UNTU, R.

Contributions to the study of the domestic building materials;
preliminary note: study of the clay of Valea Lupului, district
of Iasi. Studii fiz tehn Iasi 10 no.2:241-249 '59. (EEAI 9:9)
(Rumania--Building materials) (Clay)

UNTU, R.

Economic aspects of the prefabricated part production. Probleme
econ 16 no.6:46-57 Ja '63.

LELEBIN, P.I.; UNUCHEK, A.I.

Filter for the purification of tanning mixtures. Kozh.-obuv.
prom. 7 no.5:36-37 My '65. (MIRA 18,8)

L 62476-05 INT:11, FOC 5

ACCESSION NR: AT5019691

UR, 2667/64/000, 025/0058/0071

AUTHOR: Unukov, V. I. (Candidate of geographical sciences)

TITLE: The relationship between the vertical wind gradients and uppermost layer clouds

SOURCE: Moscow. Nauchno-issledovatel'skiy institut aeroklimatologii. Trudy, no. 25, 1964. Voprosy aviatsionnoy klimatologii (Problems in aviation climatology), 58-71

TOPIC TAGS: uppermost layer cloud, vertical wind cloud, wind gradient, cloud formation

12,55

12,55

ABSTRACT: Lately, the uppermost layer clouds have been in the center of increased interest (see, e.g., A. M. Baranov, Meteorologiya i gidrologiya, no. 1, 1958; D. G. James, Met. Off. Prof. Notes, no. 123, 1957; R. J. Murgatrov, P. Goldsmith, Prof. Notes. Met. Off., London 7, no. 119, 1956). The present paper is based on data collected by aircraft probes during 1958 and 1959 and by 16 temperature wind probing stations on the European territory of the Soviet Union. It investigates relationships between the vertical wind gradient in the upper troposphere and the clouds within the uppermost layer. Cases are utilized for which the vertical size

Card 1/2

L 62476-65

ACCESSION NR: AT5019691

2
of the clouds is 2 km or more and their lower boundary above 5 km. Results show that the uppermost layer clouds are generated more often and have larger vertical dimensions in zones of large vertical wind gradients than in zones with low vertical wind gradient values. The results of the study are accompanied by detailed discussions of various cases of cloud formation and evolution.

ASSOCIATION: Nauchno-issledovatel'skiy institut aeroklimatologii, Moscow
(Scientific-Research Institute of Aeroklimatology)

SUBMITTED: 00

RECEIVED: 00

SUB CODE: FC

OTHER: 000

L 32654-66 EWT(1)/FCC GW

ACC NR: AT6017316 (N)

SOURCE CODE: UR/2546/65/000/143/0003/0023

AUTHORS: Dubentsov, V. R.; Unukova, A. A.

33
B

ORG: none*

TITLE: Some distributional features of temperature and the zonal components of wind in the stratosphere over the northern and central parts of the Pacific Ocean

SOURCE: ¹²*Moscow. Tsentral'nyy institut prognozov. Trudy, no. 143, 1965. Stroyeniye troposfery i stratosfery i vzaimosvyaz' tsirkulyatsii Severnogo i Yuzhnogo Polushariy (Structure of the troposphere and stratosphere and interrelation of the circulations of the Northern and Southern Hemispheres), 3-23

TOPIC TAGS: atmospheric circulation, wind, stratosphere, atmospheric temperature

ABSTRACT: The temperature distribution and zonal components of the wind in the stratosphere over the equatorial, western, and northern parts of the Pacific Ocean and also over Alaska were studied. A well-defined biennial cyclicity (averaging 25--26 months) was established for the 17--30 km layer of the equatorial stratosphere. The eastern component generally increases with height; the western component decreases. The actual velocity of each component increases with height. The wind components become more complex northward (7--14° N lat), but the eastern component is much stronger than the western. The maximum eastern component occurs in summer, with the value in winter markedly less. In this zone the annual cycle

Card 1/2

L 32654-66

ACC NR: AT6017316

becomes appreciable. In the zone from 24 to 30° N lat, the lower stratosphere exhibits an annual cycle of wind variation. In the 20—36 km layer the eastern trend is dominant. Western currents are observed at these heights only when the biennial western trend of the lower latitudes appears. The biennial trend may be detected only to 30° N lat; in the temperate zone to the north it is missing. From 35 to 45° N lat, the western direction is dominant (at 100 and 80 mb), with a pronounced annual cycle, maximum velocity in winter, and minimum in summer. The western trend is dominant in the temperate zone (about 55° N lat) at the 80-mb surface. Above the 50-mb surface, an eastern current appears. At higher latitudes (60—70°), beginning at the 100- and 80-mb surfaces, an alternation of eastern and western components of wind is noted. Velocity of the western component gradually increases with height. This is due to the position of the westerly stratospheric jet stream, which lies on the northern edge of the zone and is felt most strongly there. The change from westerly to easterly circulation in the high latitudes begins before the change in lower latitudes. The annual behavior of temperature in the lower equatorial stratosphere and in high latitudes is approximately the same as in the troposphere. In the middle latitudes, the temperature in the lower stratosphere is somewhat less in summer than in winter. At 26—28 km and higher in the middle and high latitudes, two maximums (summer and winter) and two minimums (spring and fall) are noted in the temperature. In the lower stratosphere (100 and 50 mb), the horizontal temperature gradient is from north to south in the low and middle latitudes, but is reversed in higher latitudes. Orig. art. has: 7 figures and 3 tables.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 008

Card 2/2 BLG

CHIRIAC, G.; CONTINESCU, H.; DIACONESCU, M.; TROSC, P.; TUCKERMAN, A.;
PETROVANU, C.; UNTURA, A.

Experience in surgery of 21 cases of caustic esophageal stenosis.
Proh'. ter., Bucur. 6:85-107 1957.
(ESOPHAGUS, stenosis
caustic, surg.)

UNYI, B.

"Subgraveling", P. 370, (KOZLEKEDESTUDOMANYI SZEMLE, Vol. 3, No. 10,
Oct. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No.12,
Dec. 1954, Uncl.

UNYI, E.

"Soil so idification works conducted by State Railways." Kelyspitestudományi Kiemle,
Budapest, Vol. 4, No. 6, June 1954, p. 321.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

UNYI, B.

UNYI, B.

Experiences in planned preventive maintenance of track by the
Pecs District Railway Management. p. 430

Vol. 5, No. 11, Nov. 1955 Budapest, Hungary KOZLEKEZESTUDOMANYSZEMLE

SO: Monthly List of East European Accession, (EEAL), IC, Vol. 5
No. 3, March, 1956

UNYI, B.

Problems of the application of jointless railroad structures in Hungary. p.28

KOZLEKEDESTUDOMANYI SZEMLE. (Kozlekedes- es Kozlekedesepitestudomanyi
Egyesulet)
Budapest, Hungary
Vol. 9, no.1/2, Jan./Feb. 1959

Monthly List of East European Accessions (EEA) IC., Vol. 8, no.7, July 1959
Uncl.

UNYI, Bela

More and more jointless rails are made. Vasut 8 no.2:
19 15 Mr '58.

UNYI, Bela

Rumanian track welders in Hungary. Vasut 12 no.1:18-19
30 Ja '62.

UNYI, Bela, dr.

Hardening V-pieces of crossing by using explosives. Vasut
12 no.2:3 of cover 25 F '62.

UNYI, Bela, dr...

Development of accurate position level on high-speed tracks.
Vasut 12 no.5:19-20 31 My '62.

UNYI, Bela, dr.

Newer development in shovel packing worke. Vasut 12 no.12:6-7
D '62.

UNYI, Bela, dr., a muszaki tudomanyok kandidatusa

Some aspects concerning the construction and maintenance of rail-road tracks for high speed. Kozl tud sz 13 no.1:29-35 Ja '63.

1. Kozlekedes- es Postaugyi Miniszterium I.Vasuti foosztalyaban foeloado.

UNYI, Bela, dr., a muszaki tudományok kandidátusa

Adjusting the position of railroad tracks by underplating.
Vasut 13 no.4:27-30 Ap '63.

UNYI, Bela, dr., a muszaki tudományok kandidátusa, foelado

Application of shovel packing and the method of underplating
in jointless rail constructions. Kozl tud sz 13 no.11:482-
491 M'63.

1. Kozlekedes- es Postaugyi Miniszterium I. Vasuti Foosz-
talya.

UNYI, B., Kandidat der technischen Wissenschaften; KERKAPOLY, E.

Welding of switches into jointless railway tracks. Acta
techn Hung 44 no.1/2:51-72 '63.

1. Ministerium für Verkehrs und Postwesen, Budapest (for
Unyi). 2. Lehrstuhl für Eisenbahnbau und -Betrieb, Technische
Universität für Bau- und Verkehrswesen, Budapest (for Kerkapoly).

UNYI, Bela, dr.

Construction of the new Tokaido railway in Japan. Vasut 14
no. 2: 20-21 F '64.

UNYI, Bela, dr.

Prevention and consequences of certain defects in the maintenance of jointless tracks. Vasut 14 no. 4:23-25 Ap '64.

UNYI, Bela, dr., a muszaki tudományok kandidátusa, főelőadó

Problems relative to the alignment of railways tracks with
the view of introducing higher running speed. Közlekedés
14 no. 7:307-312 J1 '64.

1. No. 1 Department of Railways, Ministry of Transportation
and Postal Affairs, Budapest.

14(6)

SOV/112-59-1-483

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 63 (USSR)

AUTHOR: Unyushin, M. V.

TITLE: Concrete Work in High-Dam Construction in Italy

PERIODICAL: V sb.: Energ. str-vo. Vol 2, M.-L., 1958, pp 76-79

ABSTRACT: Bibliographic entry.

Card 1/1

KRUDRNA, Milan; UNZEITIG, Jan

Experience with designing the rubber tube pump, Chem prum
12 no.3:139-141 Mr '62.

1. Vyzkumny ustav syntetickych pryskyric a laku, Praha.

UNCLASSIFIED, G.II.

British Abst.

A I

Aug. 1953

Chemical Equilibria and Kinetics

U S S R .

Reciprocal systems of hydroxides and chlorides of potassium and lithium. G. M. Ushakov (C. R. Acad. Sci. U.S.S.R., 1952, 87, 191-193). Thermal analysis of four binary systems, two diagonal and 19 internal sections allows the construction of a contour diagram of the system $K, Li // OH, Cl$. The area of the square is divided into 9 fields, the largest of which is that of KCl . The equilibrium $KOH + LiCl \rightleftharpoons LiOH + KCl$ is shifted strongly towards $LiOH + KCl$ which has the greatest heat effect (20.54 kg-cal.), the greatest sum of lattice energies (19.9 kg-cal.), and the greatest difference of the sums of ionic radii. There are 6 invariant points, 3 of them eutectic. The introduction of hydroxides into the binary system $LiCl - KCl$ favours the formation of complexes.

MA
B

UNZHAKOV, G.M.

USSR.

Thermographic investigation of binary systems containing potassium and sodium hydrides and potassium and lithium hydrides. M. S. Roshchinskaya and G. M. Unzhakov. *Izv. Akad. Nauk SSSR, Khim. Nauk*, 1984, No. 1, 8-9 (1983); *Referat. Khim. Nauk*, 1984, No. 4960. — The system NaOH-KOH had a eutectic with a limited sol. in the solid phase. The eutectic point was at 60 mole% KOH and 170°. In the system LiOH-KOH was found an incongruently melting compd. 2LiOH·KOH which formed limited solid solns. with its component. The eutectic point (solid soln. of 2LiOH·KOH and KOH) was at 227° and the transition point at 314°. M. Hosh

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UNZHAKOV, G.M.

USSR

✓ Irreversible reciprocal system of lithium and potassium
bromides and hydroxides. N. A. Rechetnikov and G. M.
Unzhakov. Izv. Akad. Nauk. SSSR. Khim. 1964,
1964, No. 4, 25-34 (1965); Ref. Zh. Khim. 1965,
1964, No. 4, 25-34; cf. C.A. 47, 884c. The liquidus diagram
of the system Li, K, OH, Br had 9 crys. fields, among
which were crys. fields of pure components and crys.
fields of the compds. KOH.KBr, 2LiOH.LiBr, and 2LiOH.
KOH. M. Hoes

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Jan

Unzhakov, G.M.

U.S.S.R.

Reciprocal system of potassium and sodium hydroxides
and bromides. G. M. Unzhakov, Izv. Akad. Nauk
Nauk. SSSR, Ser. Khim. 1954, No. 1, 10-13
(1953); Referat. Akad. Khim. 1954, No. 4078. The
liquidus diagram of the reciprocal system Na, K || OH, Br
had 6 crystn. fields, 4 of which were those of the components
and 2 were of compds. KOH-KBr and NaOH-NaBr. Of
the 5 triple points 2 were eutectic: 170 and 263°.

M. Hosh

UNZHAKOV, G. M.

Exchange reaction. *halides*. G. M. Urzhakov, Irkutsk. *Chem. Abstr.* 1964, 59, 12092. Data obtained by the study of reciprocal systems: K, Li, Na, LiOH, Br, and K, NaOH, and similar systems including halides, with reference to the formation of solid and chem. compds. Correlation of fusion temps. and lattice energy (82304) lead to the tentative conclusion that substances with the above values; solid solns. are formed by substances with the above values are the smallest. Benicewicz